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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/589,358	08/14/2006	Nao Murase	129068	6003	
	25944 7590 01/31/2008 OLIFF & BERRIDGE, PLC			EXAMINER .	
P.O. BOX 3208	50	•	CHANG	CHANG, CHING	
ALEXANDRIA	A, VA 22320-4850		ART UNIT	PAPER NUMBER	
•			3748		
			MAIL DATE	DELIVERY MODE	
			01/31/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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,		Application No.	Applicant(s)		
_		10/589,358	MURASE ET AL.		
Office Action Summary		Examiner	Art Unit		
		Ching Chang	3748		
The Period for Re	e MAILING DATE of this communication app ply	pears on the cover sheet with	the correspondence address		
WHICHEV - Extensions after SIX (6) - If NO period - Failure to re Any reply re	ENED STATUTORY PERIOD FOR REPL YER IS LONGER, FROM THE MAILING D of time may be available under the provisions of 37 CFR 1.1 MONTHS from the mailing date of this communication. I for reply is specified above, the maximum statutory period ply within the set or extended period for reply will, by statute ceived by the Office later than three months after the mailin int term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICA 136(a). In no event, however, may a reply will apply and will expire SIX (6) MONTHS e, cause the application to become ABAN	TION. be timely filed from the mailing date of this communication. DONED (35 U.S.C. § 133).		
Status					
1)☐ Res	ponsive to communication(s) filed on	•	•		
·	•	s action is non-final.			
3) Sinc	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits				
clos	ed in accordance with the practice under <i>l</i>	Ex parte Quayle, 1935 C.D. 1	1, 453 O.G. 213.		
Disposition o	f Claims				
4)⊠ Claii	m(s) <u>1-8</u> is/are pending in the application.				
4a) (Of the above claim(s) is/are withdra	wn from consideration.			
5)⊠ Claiı	m(s) <u>1-6, 8</u> is/are allowed.				
· <u> </u>	m(s) <u>7</u> is/are rejected.				
	m(s) is/are objected to.				
8) Claii	m(s) are subject to restriction and/c	or election requirement.			
Application P	apers				
9) <u></u> The s	specification is objected to by the Examine	er.	•		
10) <u></u> The o	drawing(s) filed on is/are: a)☐ acc	epted or b) objected to by	the Examiner.		
	cant may not request that any objection to the	• , ,	• •		
	acement drawing sheet(s) including the correct		•		
11) The o	path or declaration is objected to by the Ex	kaminer. Note the attached O	ffice Action or form PTO-152.		
Priority under	r 35 U.S.C. § 119				
12)⊠ Ackn	owledgment is made of a claim for foreign	priority under 35 U.S.C. § 11	19(a)-(d) or (f).		
a)⊠ All	b) ☐ Some * c) ☐ None of:				
1.	Certified copies of the priority document	s have been received.			
2.	' '	• •			
3.⊠	Copies of the certified copies of the prio	Y	ceived in this National Stage		
+ 0 41	application from the International Bureau	• • • • • • • • • • • • • • • • • • • •	and the desired		
" See tr	ne attached detailed Office action for a list	or the certified copies not rec	ceivea.		
Attachment(s)	oferences Cited (PTO 902)	4) T 1-4 2 ···	man; (DTO 412)		
	eferences Cited (PTO-892) raftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/M	mary (PTO-413) lail Date		
3) 🔀 Information	Disclosure Statement(s) (PTO/SB/08)	5) Notice of Infor 6) Other:	mal Patent Application		
raper No(s)/Mail Date <u>8/14/06, 6/15/07</u> .	o) [Other			

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claim 7 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

More specifically, "the retarded valve opening timing "in cliam 7 is lacking of antecedent basis, thus renders the claimed subject in claim 7 indefinite.

Allowable Subject Matter

3. Claims 1-6, and 8 are allowed.

Conclusion

- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - Majima et al. (US Patent 6,681,741).
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ching Chang whose telephone number is (571)272-4857. The examiner can normally be reached on M-Th, 7:00 AM -5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Denion can be reached on (571)272-4859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

CHING CHANG PRIMARY EXAMINER TECHNOLOGY CENTER 3700